## New Flight Data Acquisition Techniques for Store Separation



Completed Technology Project (2016 - 2017)

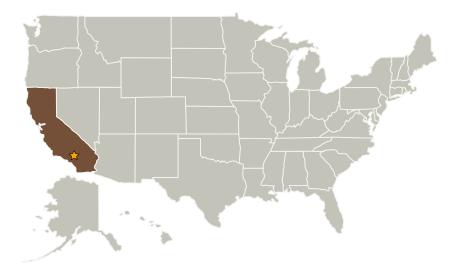
#### **Project Introduction**

We wish to evaluate the potentials of 3D flash LIDAR camera and DGPS technologies for the application of store separation/docking flight data acquisition.

#### **Anticipated Benefits**

Develop a data analysis technology using 3D Lidar Cameras in store separation for air launch systems

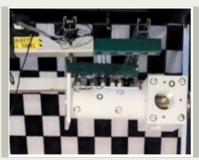
#### **Primary U.S. Work Locations and Key Partners**



Organizations Performing Work	Role	Туре	Location
Armstrong Flight Research Center(AFRC)	Lead	NASA	Edwards,
	Organization	Center	California

#### **Primary U.S. Work Locations**

California



Ground test rig for store separation data acquisition system testing

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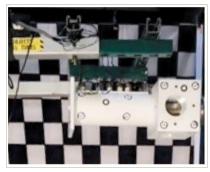


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#### **Images**



**Project Image** 

Ground test rig for store separation data acquisition system testing (https://techport.nasa.gov/imag e/35785)

## Organizational Responsibility

## Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

#### Lead Center / Facility:

Armstrong Flight Research Center (AFRC)

#### **Responsible Program:**

Center Innovation Fund: AFRC CIF

### **Project Management**

#### **Program Director:**

Michael R Lapointe

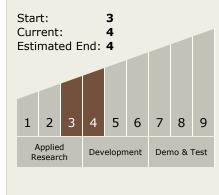
#### **Program Manager:**

David F Voracek

#### **Principal Investigator:**

Trong T Bui

# Technology Maturity (TRL)





**Center Innovation Fund: AFRC CIF** 

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## **Technology Areas**

#### **Primary:**

 TX16 Air Traffic Management and Range Tracking Systems
 TX16.2 Weather/Environment

## Target Destination Earth

